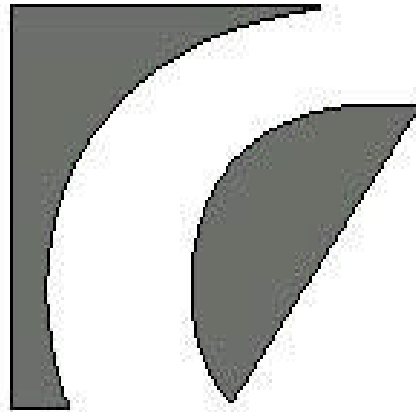# Federal PKI Briefing

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AGENDA

- Distributed Directory Access

- X.500 vs. LDAP Chaining

- DSP Strengths

- DSP State Information

- SafePages DSP Interoperability

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Distributed Directory Access

X.500

– Directory System Protocol (DSP)

– Referrals

LDAP

– Referrals

– LDAP (non-standard)

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X.500 vs. LDAP Chaining

- X.500 - a directory *system* standard: chaining built in since 1988

- LDAP - a directory *access* protocol: chaining not defined, distributed directory features an afterthought, tacked on

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DSP Strengths

- DSP is part of the X.500 standard
- End user credentials are carried through on DSP operations - absolutely required for strong authentication
- State information is also part of DSP

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DSP State Information

- Trace Information - keeps track of which DSAs have been visited and for which target object. This prevents looping.

- Operation Progress - tells the receiving DSA what to do next to prevent duplication of work already accomplished

- Time Limit - time limit of the whole operation is honored by all DSAs performing the operation.

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SafePages DSP Interoperability

- Isode - SafePages is Isode-based
- Nexor - Chromatix SmartBase/NavSea Project
- CDC - US/Canadian Interoperability Testing with Entrust
- DCL, ESL - DMS Interoperability Testing
- ICL - NSA Bridge CA Pilot

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